

## ABSTRACT OF THE DISCLOSURE

A system and method for providing security to a graph of interconnected nodes includes a grouping multiplexing layer configured to monitor calls to the system, a graphing dynamic link layer configured to transmit and receive data to and from the graph, and a group security manager coupled to the grouping multiplexing layer and coupled to the graphing dynamic link layer; the group security manager is configured to perform security-related acts via interacting with a group database to propagate security-related information to members of a group within the graph. The group security manager is configured to provide role-based authorization on publication of one or more records and provide membership control for admission to a graph of interconnected nodes. The group security manager provides membership control by providing credentials to potential members of the graph to enable a connection and by providing a governed system for renewal and revocation of members.